Recombinant Human acyl-CoA dehydrogenase family, member 8, His-tagged

Cat. No. ACAD8-338H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ACAD8, 23-415aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	23-415 a.a.
Description	ACAD8 is a member of the acyl-CoA dehydrogenase family of enzymes that catalyze the dehydrogenation of acyl-CoA derivatives in the metabolism of fatty acids or branch chained amino acids. The protein is a mitochondrial enzyme that functions in catabolism of the branched-chain amino acid valine. Defects in this gene are the cause of isobutyryl-CoA dehydrogenase deficiency. Recombinant human ACAD8 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 30% glycerol, 1mM DTT
Molecular Mass	45.1kDa (416aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSLVQTGHR SLTSCIDPSM GLNEEQKEFQ KVAFDFAARE MAPNMAEWDQ KELFPVDVMR KAAQLGFGGV YIQTDVGGSG LSRLDTSVIF EALATGCTST TAYISIHNMC AWMIDSFGNE EQRHKFCPPL

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	CTMEKFASYC LTEPGSGSDA ASLLTSAKKQ GDHYILNGSK AFISGAGESD IYVVMCRTGG PGPKGISCIV VEKGTPGLSF GKKEKKVGWN SQPTRAVIFE DCAVPVANRI GSEGQGFLIA VRGLNGGRIN IASCSLGAAH ASVILTRDHL NVRKQFGEPL ASNQYLQFTL ADMATRLVAA RLMVRNAAVA LQEERKDAVA LCSMAKLFAT DECFAICNQA LQMHGGYGYL KDYAVQQYVR DSRVHQILEG SNEVMRILIS RSLLQE
Purity	>95% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	0.25mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	ACAD8 acyl-CoA dehydrogenase family, member 8 [Homo sapiens]
Official Symbol	ACAD8
Synonyms	ACAD8; acyl-CoA dehydrogenase family, member 8; acyl Coenzyme A dehydrogenase family, member 8; isobutyryl-CoA dehydrogenase, mitochondrial; activator-recruited cofactor 42 kDa component; acyl-Coenzyme A dehydrogenase family, member 8; ARC42; ACAD-8;
Gene ID	27034
mRNA Refseq	NM_014384
Protein Refseq	NP_055199

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

MIM	604773
UniProt ID	Q9UKU7
Chromosome Location	11q25
Pathway	Branched-chain amino acid catabolism, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of amino acids and derivatives, organism-specific biosystem; Valine, leucine and isoleucine degradation, organism-specific biosystem; Valine, leucine and isoleucine degradation, conserved biosystem; valine degradation I, organism-specific biosystem;
Function	acyl-CoA dehydrogenase activity; acyl-CoA dehydrogenase activity; flavin adenine dinucleotide binding;

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA